



Jiashan TD Composite Bearing Factory

嘉善天地复合轴承厂



FB-090

Bronze Self-lubricating Bearing 青铜自润滑轴承

基材特性 Material Features

该产品以特殊配方的高密度铜合金为基体，表面轧制菱形或球形油穴，它有高密度，良好承载压力及很好的耐磨性。产品适用于起重机械、建筑机械、采矿机械等。

FB-090 is a kind of bushes wrapped by bronze strip. The bronze is of particular formulation with high specific gravity and on its surface may be incorporated with spherical or diamond shaped indentations or oil grooves as required. It has high density, good load capacity and wear-resistant. The product is applied to lifting machinery, construction machinery and mining machinery, etc.

性能指标 Performance Index	有关数据 Data
密度 Y Density Y	8.8 g/cm ³
抗压强度 α_c Compression Strength	470N/mm ²
导热系数 Coefficient of Heat Conduction	58W/m · K
线膨胀系数 α_l Coefficient of Linear Expansion	18.5 × 10 ⁻⁶ /K
硬度 Hardness	90~120HB
延伸率 Elongation	40%
材料名称 Alloy Material	CuSn8P0.3



技术参数 Technical

基材材质: CuSn8P0.3
 硬度: HB90~120
 最大承载压力: 75N/mm²
 适用温度范围: -80~200 摄氏度
 最高滑动速度: 2.5m/s
 允许最高PV值: 16N/mm² · m/s
 Base material: CuSn8P0.3
 Hardness: HB90~120
 Load capacity: 75N/mm²
 Temperature: -80~200°C
 Speed limit: 2.5m/s
 PV limit(oil): 16N/mm² · m/s

FB-092

Bronze With Through Hole Self-lubricating Bearing 青铜冲孔自润滑轴承

基材特性 Material Features

该产品是在FB-090材料的基础上改进而成，表面按一定的角度和密度有序地排列润滑通孔。它具有延长使用期及润滑间隔频率，减少磨损等优点。

The product is improved from FB-090. The hole is arranged on the surface according to certain angle and density. It can delay life, low lubricating frequency and decrease wear etc.

性能指标 Performance Index	有关数据 Data
密度 Y Density Y	8.8 g/cm ³
抗压强度 α_c Compression Strength	470N/mm ²
导热系数 Coefficient of Heat Conduction	58W/m · K
线膨胀系数 α_l Coefficient of Linear Expansion	18.5 × 10 ⁻⁶ /K
硬度 Hardness	90~120HB
延伸率 Elongation	40%
材料名称 Alloy Material	CuSn8P0.3



技术参数 Technical

基材材质: CuSn8P0.3
 硬度: HB90~120
 最大承载压力: 60N/mm²
 适用温度范围: -100~200 摄氏度
 最高滑动速度: 2.5m/s
 允许最高PV值: 16N/mm² · m/s
 Base material: CuSn8P0.3
 Hardness: HB90~120
 Load capacity: 60N/mm²
 Temperature: -100~200°C
 Speed limit: 2.5m/s
 PV limit(oil): 16N/mm² · m/s

FB-08G

Solid lubricat Bearing 固体润滑轴承

基材特性 Material Features

该产品以特殊配方的高密度铜合金为基材，表面轧制菱形或球形油穴，它有高密度，良好承载压力及很好的耐磨性。产品适用于起重机械、建筑机械、采矿机械等。

FB-08G is a kind of bushes wrapped by bronze strip. The bronze is of particular formulation with high specific gravity and on its surface may be incorporated with spherical or diamond shaped indentations or oil grooves as required. It has high density, good load capacity and wear-resistant. The product is applied to lifting machinery, construction machinery and mining machinery, etc.

性能指标 Performance Index		有关数据 Data
最大承载压力 P Max Load Capacity P		90N/mm ²
最大线速度 V Max Line Speed V	干摩擦 Dry friction	0.4m/s
	脂润滑 Grease Lubrication	2m/s
摩擦系数 μ Friction Coef. μ	干摩擦 Dry friction	<0.22
	脂润滑 Grease Lubrication	<0.08
最高PV值 Maximum PV Value	干摩擦 Dry friction	1.8N/mm ² · m/s
合金硬度 Alloy Hardness		60~90HB



技术参数 Technical

最大承载压力: 65N/mm²
 适用温度范围: -100~260°C
 最高滑动速度: 4m/s
 摩擦系数: 0.06~0.2
 允许最高PV值(干): 2.6N/mm² · m/s
 允许最高PV值(油): 15N/mm² · m/s
 Load capacity: 65N/mm²
 Temperature: -100~260°C
 Speed limit: 4m/s
 Friction coef(u): 0.06~0.2
 PV LIMIT(Dry): 2.6N/mm² · m/s
 PV LIMIT(Oil): 15N/mm² · m/s

FB-09G

Bronze With Graphite Solid-lubricating Bearing 青铜固体自润滑轴承

基材特性 Material Features

该产品是在FB-090为基础，在表面菱形油穴内埋入特殊的固体润滑剂。它具有很低的摩擦系数，较好的耐磨性等优点，能在无油或少油的条件下工作。

FB09G is based bronze material and embedded with solid lubricants in its diamond or round shape pockets which are evenly distributed on its inside layers. It has almost the same performance and application condition with FB08G.

性能指标 Performance Index		有关数据 Data
密度 Y Density Y		8.3 g/cm ³
抗压强度 α _c Compression Strength		470N/mm ²
导热系数 Coefficient of Heat Conduction		58W/m · K
线膨胀系数 α _L Coefficient of Linear Expansion		18.5 × 10 ⁻⁶ /K
硬度 Hardness		90~120HB
延伸率 Elongation		40%
材料名称 Alloy Material		CuSn8P0.3

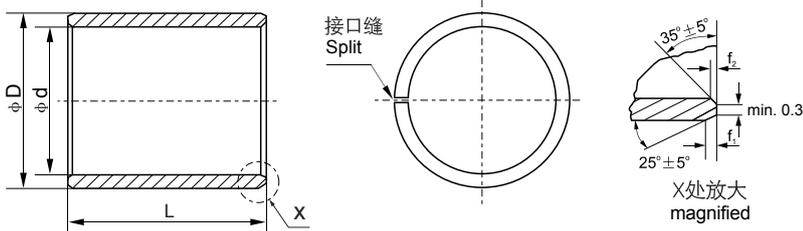


技术参数 Technical

最大承载压力: 65N/mm²
 适用温度范围: -100~260°C
 最高滑动速度: 4m/s
 摩擦系数: 0.06~0.2
 允许最高PV值(干): 2.6N/mm² · m/s
 允许最高PV值(油): 15N/mm² · m/s
 Load capacity: 65N/mm²
 Temperature: -100~260°C
 Speed limit: 4m/s
 Friction coef(u): 0.06~0.2
 PV LIMIT(Dry): 2.6N/mm² · m/s
 PV LIMIT(Oil): 15N/mm² · m/s

FB-090/092/08G/09G

Bronze Self-lubricating Bearing Metric Size 青铜自润滑轴承尺寸



单位unit:mm

d	D	f ₁	f ₂	L ⁰ _{-0.40}													
				10	15	20	25	30	35	40	50	60	70	80	90	100	
10	12	0.5	0.3	1010	1015	1020											
12	14			1210	1215	1220											
14	16			1410	1415	1420	1425										
15	17			1510	1515	1520	1525										
16	18			1610	1615	1620	1625										
18	20			1810	1815	1820	1825										
20	23			2010	2015	2020	2025										
22	25	0.8	0.4	2210	2215	2220	2225	2230									
24	27			2415	2420	2425	2430										
25	28			2515	2520	2525	2530										
28	31			2815	2820	2825	2830										
30	34			3015	3020	3025	3030	3035	3040								
32	36	1.0	0.6	3215	3220	3225	3230	3235	3240								
35	39			3515	3520	3525	3530	3535	3540								
40	44			4020	4025	4030	4035	4040	4050								
45	50	1.2	0.8	4520	4525	4530	4535	4540	4550								
50	55			5020	5025	5030	5035	5040	5050	5060							
55	60			5520	5525	5530	5535	5540	5550	5560							
60	65			6025	6030	6035	6040	6050	6060	6070							
65	70			6530	6535	6540	6550	6560	6570								
70	75			7030	7035	7040	7050	7060	7070	7080							
75	80			7530	7535	7540	7550	7560	7570	7580							
80	85	1.4	0.8	8030	8035	8040	8050	8060	8070	8080							
85	90			8530	8535	8540	8550	8560	8570	8580	8590						
90	95			9030	9035	9040	9050	9060	9070	9080	9090						
95	100			9540	9550	9560	9570	9580	9590	95100							
100	105			10050	10060	10070	10080	10090	100100								
105	110	10550	10560	10570	10580	10590	105100										
110	115	11050	11060	11070	11080	11090	110100										

FB-090/092/08G/09G

Bronze Self-lubricating Bearing Metric Size

青铜自润滑轴承尺寸

单位unit:mm

d	D	f ₁	f ₂	L ⁰ _{-0.40}									
				25	30	35	40	50	60	70	80	90	100
115	120	1.4	0.8					11550	11560	11570	11580	11590	115100
120	125								12060	12070	12080	12090	120100
125	130								12560	12570	12580	12590	125100
130	135								13060	13070	13080	13090	130100
135	140								13560	13570	13580	13590	135100
140	145								14060	14070	14080	14090	140100
145	150								14560	14570	14580	14590	145100
150	155								15060	15070	15080	15090	150100
155	160								15560	15570	15580	15590	155100
160	165								16060	16070	16080	16090	160100
165	170								16560	16570	16580	16590	165100
170	175								17060	17070	17080	17090	170100
175	180								17560	17570	17580	17590	175100
180	185								18060	18070	18080	18090	180100
185	190								18560	18570	18580	18590	185100
190	195								19060	19070	19080	19090	190100
195	200								19560	19570	19580	19590	195100
200	205								20060	20070	20080	20090	200100

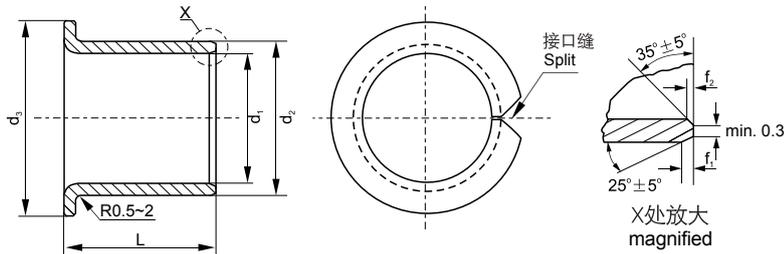
标准轴套公差 Standard tolerance for bushes

标准外径 Standard Dia.	衬套外径尺寸 O.D.Size	相配座孔 Housing	衬套内径尺寸 I.D. Size
10<d≤18	+0.065 +0.030	+0.018 0	+0.043 0
18<d≤30	+0.075 +0.035	+0.021 0	+0.052 0
30<d≤50	+0.085 +0.045	+0.025 0	+0.062 0
50<d≤80	+0.100 +0.055	+0.030 0	+0.074 0
80<d≤120	+0.120 +0.070	+0.035 0	+0.087 0
120<d≤180	+0.170 +0.100	+0.040 0	+0.100 0
180<d≤250	+0.210 +0.130	+0.046 0	+0.115 0
250<d≤315	+0.260 +0.170	+0.052 0	+0.130 0

FB-090/092/08G/09G

Flanged Bearing Metric Size

翻边轴承尺寸



单位unit:mm

d ₁	d ₂	d ₃	f ₁	f ₂	L ⁰ _{-0.40}											
					15	20	25	30	35	40	50	60	70	80	90	
25	28	35	0.8	0.4	25150F	25200F	25250F									
30	34	45				30200F	30250F	30300F								
35	39	50	1.0	0.6		35200F	35250F	35300F	35350F							
40	44	55					40250F	40300F	40350F	40400F						
45	50	60						45300F	45350F	45400F	45500F					
50	55	65						50300F	50350F	50400F	50500F					
55	60	70						55300F	55350F	55400F	55500F					
60	65	75	1.2	0.8				60300F	60350F	60400F	60500F	60600F				
65	70	80						65300F	65350F	65400F	65500F	65600F				
70	75	85							70350F	70400F	70500F	70600F	70700F			
75	80	90							75350F	75400F	75500F	75600F	75700F			
80	85	100							80350F	80400F	80500F	80600F	80700F	80800F		
90	95	110									90500F	90600F	90700F	90800F	90900F	
100	105	120									100500F	100600F	100700F	100800F	100900F	
110	115	130									110500F	110600F	110700F	110800F	110900F	
120	125	140									120500F	120600F	120700F	120800F	120900F	
130	135	155										130600F	130700F	130800F	130900F	
140	145	165										140600F	140700F	140800F	140900F	
150	155	180										150600F	150700F	150800F	150900F	
160	165	190										160600F	160700F	160800F	160900F	
170	175	200	1.4	0.8								170600F	170700F	170800F	170900F	
180	185	215										180600F	180700F	180800F	180900F	
190	195	225										190600F	190700F	190800F	190900F	
200	205	235										200600F	200700F	200800F	200900F	
225	230	260										225600F	225700F	225800F	225900F	
250	255	290										250600F	250700F	250800F	250900F	
265	270	305										265600F	265700F	265800F	265900F	
285	290	325										285600F	285700F	285800F	285900F	
300	305	340										300600F	300700F	300800F	300900F	



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